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J Patten.. - Robotics and Automation. Proceedings... . 2002 - ieeexplore.ieee.org
... It is possible that an industrial **factory** may be able to send the engineers and technicians to the training programs. ... iii. PCB **assembly** RESULTS The software **interface** package developed provides an effective man-machine **interface** to the Unimation Puma 560 robot. ...

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... There is a large class of **assembly** and packaging processes which require verification that the correct components are present in the corrected locations. ... **Machine**-vision-based alignment: space to **factory** to garage. Author(s): Donald J. Christian; Hoshang Shroff. **Machine** ...
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BJ You, YS Oh.. - Industrial Electronics, IEEE ..., 2002 - ieeexplore.ieee.org
... methods are not appropriate for a vision-based automation system in the **factory** manufacturing environment ... Nu and Nb are specified in consideration of operational requirements of the automatic **assembly machine** ... that is, increase the value of A(ai, bj) by 1 whenever as **line** b ...
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Programming and recovery in cells for **factory** automation
DJ Williams, P Rogers ... - The International Journal of ..., 1986 - Springer
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[BOOK] Hamiltonian **path** problems in the on-**line** optimization of flexible manufacturing systems
N Ascheuer - 1995 - zib.su
... In 1987 SNI erected a **factory** in Augsburg (Germany) where all their personal computers (PCs) and related products such as monitors, data terminals, keyboards, multi/user ... Thus, we are actually confronted with anon{line asymmetric Hamiltonian **path** problem. ...
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... we present one of the most chal- lenging **assembly** tasks on a disk drive manufacturing **line** ... Iiis concurrency presents iI conIliri not easily satisfied by convcntional **machine** tool stages or industrial rohots ... of pixels in the destinatron image, specifying hotii tlic x mid y (row and **column** ...
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[BOOK] **Assembly line** design: methodology and applications
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... Flexible Manufacturing Systems: Benefits for the Low inventory **Factory**. John E. Lenz 28. Fundamentals of Machining and **Machine** Tools, Second Edition, Geoffrey Boothroyd and Winston A. Knight 29. ... **Assembly** Line Design: Methodology and Applications, We-Min Chow 34. ...
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Fieldbus and cnc architecture: towards a cnc software **factory**
JD Decotignes - Emerging Technologies and Factory . . 2002 - ieeexplore.ieee.org
... **assembly** is concerned, it should be possible to replace it by a new one with very few ... CONCLUSION A careful design of the architecture of CNCs opens the road to CNC software **factory**. The use of a fieldbus for input and output to the **machine**- tool together with a proper CNC ...
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A new approach to multi agent systems control in robot-based flexible manufacturing work cells
E Freund, HJ Buxbaum - . Robots and Systems' 93, IROS'93. . ... 2002 - ieeexplore.ieee.org
... All **machine** pro- grams are managed by the cell controller exclusively, 50 that, in conjunction with the ... A. R. Hidde, "Continuous flow of infor- mation in the area of **factory** automation by standardized interfaces ... [lo] E. Freund and H.-J. Buxbaum, "Flexible **assembly** cell simulation". ...
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Reconfigurable manufacturing systems

Y Koren, U Heisel, F Jovane, T Moriwaki... - CIRP Annals- ..., 1999 - Elsevier
... 1977 by MITI in Japan, and culminating in 1983 in a test **factory** built in ... described by shape, inter-
faces, kinematics, and stiffness), (ii) constraints regarding the **assembly** of these ... Passive main
functions characterize the behavior of the **machine** and represent functions such as ...
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Universal work cell controller-application experiences in flexible manufacturing
E Freund, HJ Buxbaum - ... Robotic Systems and the Real World ..., 2002 - ieeexplore.ieee.org
... Next to simple pick and place jobs also difficult sensor supported **assembly** tasks can be carried ...
All **machine** programs are managed by LUCAS exclusively, so that, in conjunction with the gripper ...
the information structure of this work cell and the integration into a **factory** network. ...
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The TMS34010: an embedded microprocessor
KM Guttag, TM Albers, MD Asal... - Micro, IEEE, 2002 - ieeexplore.ieee.org
... However, for speed-critical portions of an application, the need for strong **assembly** language
support for embedded control systems still exists. ... The device per- forms the row/**column** address
multiplexing necessary to **interface** efficiently to DRAM. 42 IEEEMICRO ...
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BC Ekroot, RJT Morris, LO Rubin... - ... '90., Proceedings of ..., 2002 - ieeexplore.ieee.org
... The scale, economics and nature of the particular **factory** will dictate the final **choice** of system
architecture. ... However, in the **assembly line** version of OA described in [I], we developed a Process
View which displayed statistics showing the WIP, the **machine** utilization and the ...
Related articles - All 3 versions

[PDF] Application of Lean Manufacturing Techniques for the Design of the Aircraft **Assembly Line**   [PDF] from mit.edu
VE Gasaway - 2002 - dspace.mit.edu
... design reliable processes and **machinery** to prevent defects from occurring in the first place, and
separate human work from **machine** work so that ... also proposes that Lean is based in three key
principles: TAKT Paced Production: it describes the rate of **assembly** in a **factory**. ...
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AutoSched tutorial   [PDF] from psu.edu
B Linder - Proceedings of the 29th conference on Winter ..., 1997 - portal.acm.org
... Stations can be machines, work benches, **assembly** positions, or any location where work is
performed on a ... Demand (**factory** orders, preventative maintenance, work orders) ... transporter vehicle
velocity, number of loads on a conveyor section, or average utilization of a **machine**. ...
Cited by 1 - Related articles - BL Direct - All 7 versions

ReDS--A dynamic planning, scheduling, and control system for manufacturing
K Hadavi, MB Shahraray... - Journal of Manufacturing Systems, 1990 - Elsevier
... to mold itself so the specific problems, such as potential longterm machine breakdowns, are ... ReDS
were built for a PCB **assembly line** and a plastic connectors **assembly line**. ... PROBLEM INGPFS
DATA INSTRUCTIONS VAX 1 1111 CO [METS ISTRUCTIONS **FACTORY** Figure 9 ...
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[PDF] Effective Modeling of Throughput Time in Semiconductor **Assembly** Processes   [PDF] from mit.edu
JA Carvalhus - 1998 - dspace.mit.edu
... The die are then grouped into boats which are in- turn grouped into **assembly** lots. ... 1.3.3 Related
Terminology, Nomenclature, and Conventions 1.3.3.1 **Factory** Characterization, **Machine** States,
and Flow Logistics ... Figure 1-4 (page 29) illustrates a k- **machine** transfer **line**. ...
Related articles - All 2 versions

Fundamentals of **machine** vision
HR Myler - 1999 - books.google.com
... allowing the **machine** to see only what it needs to see (as in **factory** automation ... contrast processing
that takes place in the HVS may be used in **machine** vision processing ... the acquisition or display
mechanism must have enough resolution to accommodate the smallest **line** in the ...
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A study on production **line** automation with LonWorks (TM) control networks
N Mansak, SK Lee - Computer Standards & Interfaces, 2002 - Elsevier
... robotics, production line, packaging plant, mobile robotics such as AGV, **assembly** automation,
supervisory ... J. Korbicz and J. Kus , Diagnosis of sugar **factory** processes using GMDH ... in reputed
companies such as Samsung Heavy Industries and Toyada **Machine** Works before ...
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A connectionist model for material handling   [PDF] from newvortex.net
H van Dyke Parunak, J Kindrick ... - Robotics and Computer- ..., 1988 - Elsevier
... Technology Institute) consists of a machining center, a turning center, a stock room for entering
and withdrawing material from the system, an **assembly** robot, an ... This assertion seems plausible
if we consider the similarity between a **factory** and a Turing **machine**: 0 The stream ...

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WASA: a decision support system for workstations arrangement in single-vehicle closed-loop AGV systems

J Lee, MK Lee... - Computers & Industrial Engineering, 1996 - Elsevier
... perform automated material handling functions in both the warehouse and the **factory** floor ... of workstation arrangement and line balance are restricted to an **assembly line** environment ... parts have similar machining requirements) are identified and the associated **machine** cells are ...
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[BOOK] Wafer fabrication: **Factory** performance and analysis

LF Atherton... - 1995 - books.google.com
... The specialized **machinery** is wafer-processing equipment for performing each of the specialized physico-chemical processes ... go from a finished wafer to a packaged electronic component requires three more factories (or **factory** operations): wafer sort, **assembly**, and final ...
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MA Sinclair - Ergonomics, 1986 - Taylor & Francis
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A generic classification and object-oriented simulation toolkit for SMT **assembly equipment**

TM Tirpak, PK Mohapatra, PC Nelson... - Systems, Man and ..., 2002 - ieeexplore.ieee.org
... for programming the GSM2 **machine** [30]. Table V shows the command-**line** syntax for ... it is possible to rapidly develop simulation and optimization software for an SMT **assembly machine**... the complex decision problems and the potential cost savings in the **factory**, optimiza- tion ...
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[BOOK] Precision **machine** design   [PDF] from nvpt.nl

AH Slocum - 1992 - books.google.com
... the life within me They drive my problems from me They help me to stay on the right **path** This book is ... Contents Preface vii Corporate Acknowledgments ix Institutional Acknowledgments xi Personal Acknowledgments xiii Chapter 1 Introduction to Precision **Machine** Design I 1.1 ...
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WJ Schonlau - Society of Photo-Optical Instrumentation Engineers (..., 2001 - recollie.com
... for either simulation or operation of the arm configuration in the **factory** or laboratory. ... Generally, the GET and PUT primitives are intended for **assembly** or packaging tasks ... **Line** Models Using Local Search?", IEEE Transactions on Pattern Analysis and **Machine** Intelligence (PAMI ...
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Swarm robot materials handling paradigm for a manufacturing workcell   [PDF] from psu.edu

KL Doty... - Robotics and Automation, 1993, ..., 2002 - ieeexplore.ieee.org
... Machines would typically be CNC lathes, mills, **assembly** robots, etc. ... m 8 8 A - Workcell B 8 8 8 ID / outpu' 8 port Fig. 2. A **factory** floor viewed as a workcell composed of workcells. ... Table 1 Simulation of Workcell Processing **Machine**, Factory Parts In Parts Out I 5, 20 57 41 I ...
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... Comer, DF, Ambler, AP, and Popplestone, RJ, "Offline Programming of **Assembly Robots**", University ... Albus, JS, "Hierarchical Control for Robots in an Automated **Factory**", 13th ISIR, 1983 ... K., "The Building Blocks of Off-line Robot Programming", Modem **Machine** Shop, November ...
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